

PROFILE SHEET **Second Grade**

Publisher: MacMillan/McGraw-Hill
Text/Instructional Material Title: Science, 2004

Science Standard	Rating		
	Adequate	Limited	No Evidence
2.1	✓		
2.2	✓		
2.3	✓		
2.4	✓		
2.5	✓		
2.6	✓		
2.7	✓		
2.8	✓		
Additional Criteria			
2-AC.1	✓		
2-AC.2	✓		
2-AC.3	✓		
2-AC.4	✓		
2-AC.5	✓		

The Virginia Department of Education recommends to the Board of Education:

YES ✓

NO

PROFILE SHEET

Second Grade

Publisher: MacMillan/McGraw-Hill
Text/Instructional Material Title: Science, 2004

Science Standard	Rating Scale Please indicate the rating for each by placing a check mark (✓) in the appropriate cell.		
	Adequate	Limited	No Evidence
2.1 The student will conduct investigations in which			
a) Observation is differentiated from personal interpretation, and conclusions are drawn based on observations;	✓		
b) Observations are repeated to ensure accuracy;	✓		
c) Two or more attributes are used to classify items;	✓		
d) conditions that influence a change are defined;	✓		
e) length, volume, mass, and temperature measurements are made in metric (centimeters, meters, liters, degrees Celsius, grams, kilograms) and standard English units (inches, feet, yards, cups, pints, quarts, gallons, degrees Fahrenheit, ounces, pounds);	✓		
f) pictures and bar graphs are constructed using numbered axes;	✓		
g) unexpected or unusual quantitative data are recognized; and	✓		
h) simple physical models are constructed.	✓		
Overall Rating for Standard	✓		

PROFILE SHEET **Second Grade**

Publisher: MacMillan/McGraw-Hill
Text/Instructional Material Title: Science, 2004

Science Standard	Rating Scale Please indicate the rating for each by placing a check mark (✓) in the appropriate cell.		
	Adequate	Limited	No Evidence
2.2 The student will investigate and understand that natural and artificial magnets have certain characteristics and attract specific types of metals. Key concepts include			
a) magnetism, iron, magnetic/nonmagnetic, poles, attract/repel; and	✓		
b) important applications of magnetism, including the magnetic compass.	✓		
Overall Rating for Standard	✓		

PROFILE SHEET

Second Grade

Publisher: MacMillan/McGraw-Hill

Text/Instructional Material Title: Science, 2004

Science Standard	Rating Scale Please indicate the rating for each by placing a check mark (✓) in the appropriate cell.		
	Adequate	Limited	No Evidence
2.3 The student will investigate and understand basic properties of solids, liquids, and gases. Key concepts include			
a) mass and volume; and	✓		
b) processes involved with changes in matter from one state to another (condensation, evaporation, melting, and freezing).	✓		
Overall Rating for Standard	✓		

PROFILE SHEET **Second Grade**

Publisher: MacMillan/McGraw-Hill
Text/Instructional Material Title: Science, 2004

Science Standard	Rating Scale Please indicate the rating for each by placing a check mark (✓) in the appropriate cell.		
	Adequate	Limited	No Evidence
2.4 The student will investigate and understand that plants and animals undergo a series of orderly changes in their life cycles. Key concepts include			
a) some animals (frogs and butterflies) undergo distinct stages during their lives while others generally resemble their parents; and		✓	
b) flowering plants undergo many changes from the formation of the flower to the development of the fruit.	✓		
Overall Rating for Standard	✓		

PROFILE SHEET **Second Grade**

Publisher: MacMillan/McGraw-Hill
Text/Instructional Material Title: Science, 2004

Science Standard	Rating Scale Please indicate the rating for each by placing a check mark (✓) in the appropriate cell.		
	Adequate	Limited	No Evidence
2.5 The student will investigate and understand that living things are part of a system. Key concepts include			
a) living organisms are interdependent with their living and nonliving surroundings; and	✓		
b) habitats change over time due to many influences.	✓		
Overall Rating for Standard	✓		

PROFILE SHEET **Second Grade**

Publisher: MacMillan/McGraw-Hill
Text/Instructional Material Title: Science, 2004

Science Standard	Rating Scale Please indicate the rating for each by placing a check mark (✓) in the appropriate cell.		
	Adequate	Limited	No Evidence
2.6 The student will investigate and understand basic types, changes, and patterns of weather. Key concepts include			
a) temperature, wind, precipitation, drought, flood, and storms; and	✓		
b) the uses and importance of measuring and recording weather data.	✓		
Overall Rating for Standard	✓		

PROFILE SHEET **Second Grade**

Publisher: MacMillan/McGraw-Hill
Text/Instructional Material Title: Science, 2004

Science Standard	Rating Scale Please indicate the rating for each by placing a check mark (✓) in the appropriate cell.		
	Adequate	Limited	No Evidence
2.7 The student will investigate and understand that weather and seasonal changes affect plants, animals, and their surroundings. Key concepts include			
a) effects on growth and behavior of living things (migration, hibernation, camouflage, adaptation, dormancy); and		✓	
b) weathering and erosion of the land surface.	✓		
Overall Rating for Standard	✓		

PROFILE SHEET

Second Grade

Publisher: MacMillan/McGraw-Hill
Text/Instructional Material Title: Science, 2004

Science Standard	Rating Scale Please indicate the rating for each by placing a check mark (✓) in the appropriate cell.		
	Adequate	Limited	No Evidence
2.8 The student will investigate and understand that plants produce oxygen and food, are a source of useful products, and provide benefits in nature. Key concepts include			
a) important plant products (fiber, cotton, oil, spices, lumber, rubber, medicines, and paper);	✓		
b) the availability of plant products affects the development of a geographic area; and			✓
c) plants provide homes and food for many animals and prevent soil from washing away.	✓		
Overall Rating for Standard	✓		

PROFILE SHEET

Second Grade

Publisher: MacMillan/McGraw-Hill
Text/Instructional Material Title: Science, 2004

Additional Criteria	Rating Scale Please indicate the rating for each by placing a check mark (✓) in the appropriate cell.		
	Adequate	Limited	No Evidence
1. Safe use of materials and equipment is encouraged.	✓		
Overall Rating for Additional Criteria 1	✓		
2. Materials emphasize the use of effective instructional practices and learning theories. <ul style="list-style-type: none"> • Students are guided through different approaches such as the learning cycle. • Students are provided the opportunity to conduct scientific inquiry appropriate for their age, grade, and maturity. • Concepts are introduced through concrete experiences. • Students are required to use manipulative materials during investigations and activities. • Multiple opportunities are provided for students to apply concepts. • Learning activities offer opportunities for students to revise their prior knowledge and create new knowledge. • Students are encouraged to pose questions and to identify problems, as well as propose multiple solutions and design and conduct tests of inference. • Students collect and interpret data through a variety of technologies and draw conclusions based on that data. 	✓		
Overall Rating for Additional Criteria 2	✓		

PROFILE SHEET

Second Grade

Publisher: MacMillan/McGraw-Hill
Text/Instructional Material Title: Science, 2004

Additional Criteria	Rating Scale Please indicate the rating for each by placing a check mark (✓) in the appropriate cell.		
	Adequate	Limited	No Evidence
3. Materials present content in an accurate, unbiased manner, and are based on sound science. <ul style="list-style-type: none"> • Materials do not contain content errors (omissions of current content, out-of-date content, overgeneralizations, etc.).* • Materials do not contain production errors (misspelled words, word omissions, incorrect answers).* • Diverse groups (racial, ethnic, cultural, linguistic), males and females, people with disabilities, and people of all ages are represented appropriately. • The materials are free of non-scientific explanation. 	✓		
Overall Rating for Additional Criteria 3	✓		

*Please note that the Department of Education does not certify that all inaccuracies and/or grammatical errors have been detected in this instructional item and reported in this correlation profile.

PROFILE SHEET

Second Grade

Publisher: MacMillan/McGraw-Hill
Text/Instructional Material Title: Science, 2004

Additional Criteria	Rating Scale Please indicate the rating for each by placing a check mark (✓) in the appropriate cell.		
	Adequate	Limited	No Evidence
4. Materials promote student assessment as an integral part of the instructional process. <ul style="list-style-type: none"> Assessment suggestions and scoring criteria for student performances on work such as lab practicals or tasks, concept maps, research projects, observation checklists, etc., are provided. Assessment items include multiple-choice, short answer, essay and open-ended questions with charts, graphs, and diagrams imbedded within the items. Options include techniques for assessing students' prior knowledge. Assessment items reflect the rigor and the intent of the standards. For example, they require students to use higher order thinking skills to apply, analyze, synthesize, evaluate, and make judgments or recommendations. 	✓		
Overall Rating for Additional Criteria 4	✓		

PROFILE SHEET

Second Grade

Publisher: MacMillan/McGraw-Hill
Text/Instructional Material Title: Science, 2004

Additional Criteria	Rating Scale Please indicate the rating for each by placing a check mark (✓) in the appropriate cell.		
	Adequate	Limited	No Evidence
5. Materials are presented in an organized, logical manner and are appropriate for the age, grade, and maturity of the students. <ul style="list-style-type: none"> • Materials are organized appropriately within and among units of study. • Format design includes titles, subheadings, and appropriate cross-referencing for ease of use. • Writing style, length of sentences, and vocabulary are appropriate. • Graphics and illustrations are appropriate. • Level of abstraction is appropriate, and real life examples, including careers are provided. • Sufficient applications are provided to promote depth of understanding. 	✓		
Overall Rating for Additional Criteria 5	✓		